

	Diameter (ID)	pi	Area (mm ²)
Surface area of 4 mL vial	8 mm	3.141592654	50.27
Surface area of 10 ml vial	12.5 mm		122.72

Media: Air PC 0.69

Paul's Benzene KG (ml/min) 4.34E-01

KG (L/hr)

KL (L/hr)

Male Mouse Liver

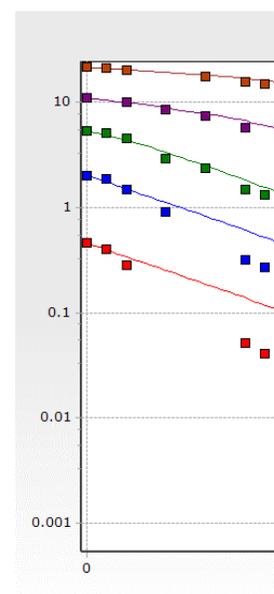
Vmax (umol/hr/mg protein)

Km (umol/L)

Deterministic
Yuching's Values

0.26

1.36



Male Mouse Lung

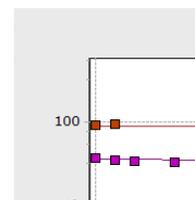
Vmax (umol/hr/mg protein)

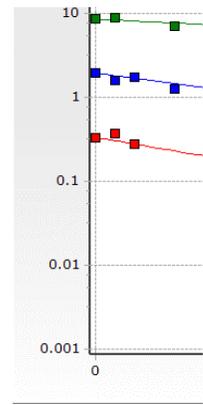
Km (umol/L)

Yuching's Values

0.13

2.00





Male Mouse Kidney

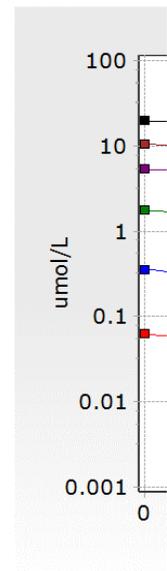
Vmax (umol/hr/mg protein)

Km (umol/L)

Yuching's Values

0.01

0.50



Ratio

2.44

Used acsIX Nelder-Mead (Heteroscedasticity set = 2)

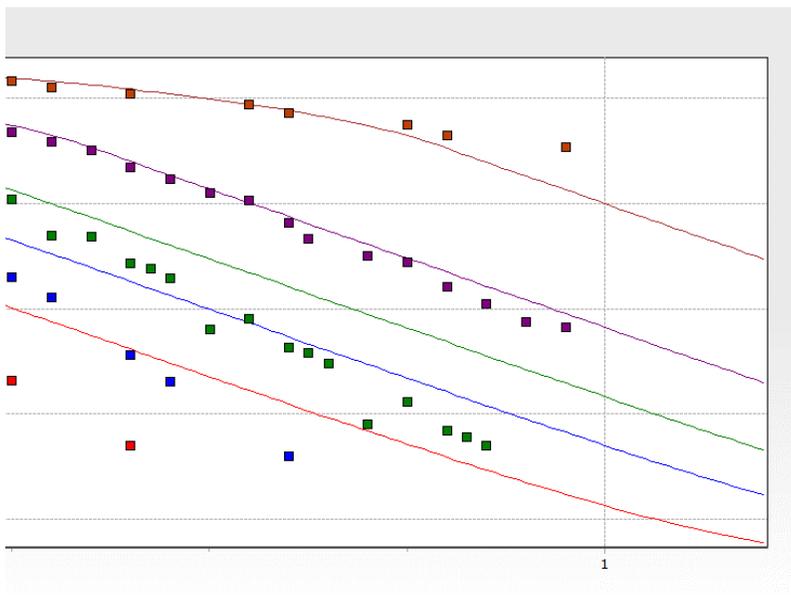
Optimized Vmax and Km with fixed KG
Surface Area Adjusted Value

0.0636

0.0921

0.24

0.0034

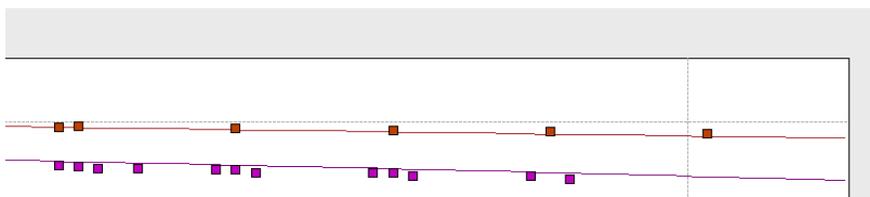


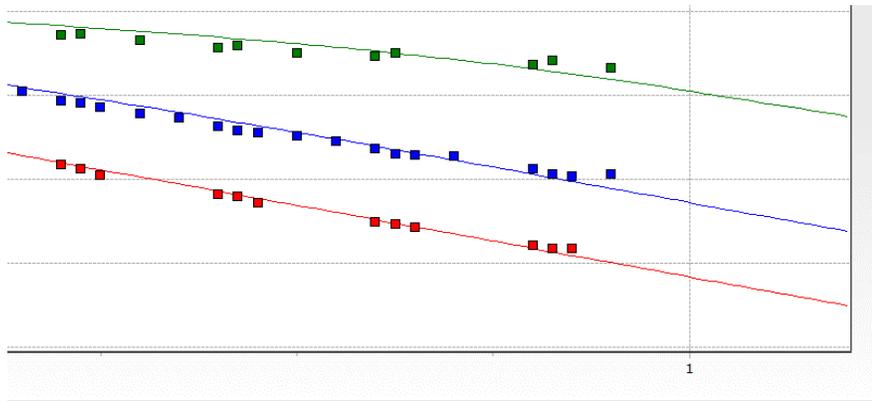
Used acsIX Nelder-Mead (Heteroscedasticity set = 2)

Optimized Vmax and Km with fixed KG

0.11

0.66



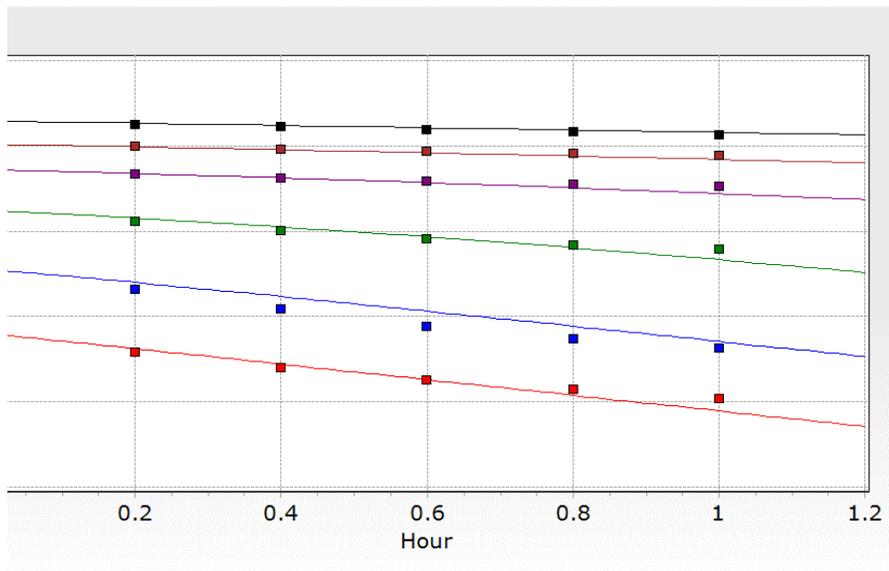


Used acslX Nelder-Mead (Heteroscedasticity set = 2)

Optimized Vmax and Km with fixed KG

0.013

0.55



Used acslX Nelder-Mead (Heteroscedasticity set = 2)

Optimized Vmax, Km and KG

Optimized KG

0.100

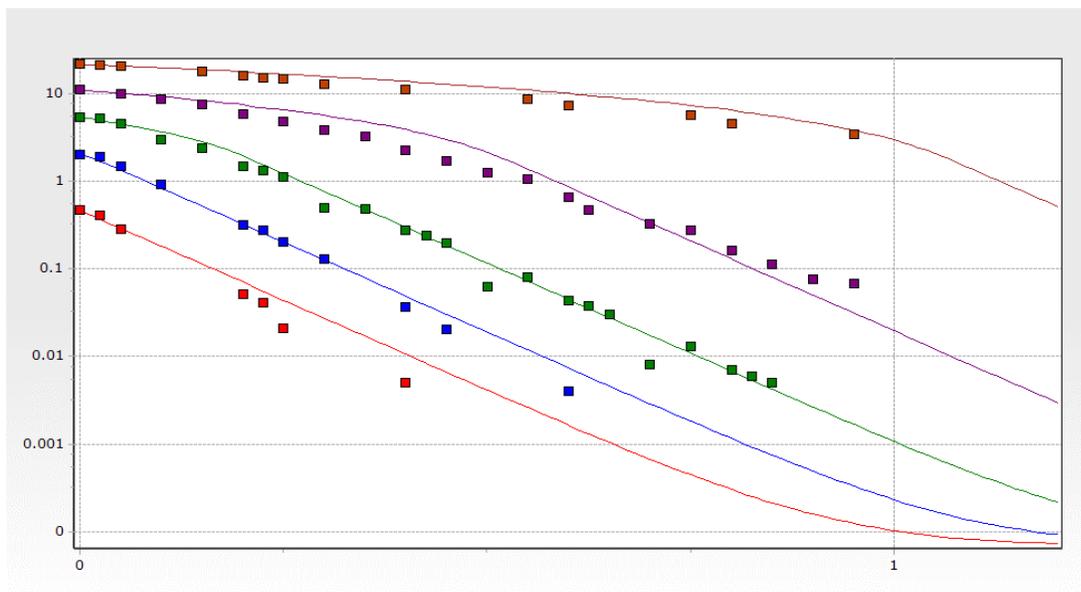
0.145

Ratio to Paul's Surface Area Adjusted Value

1.572

0.19

0.0028

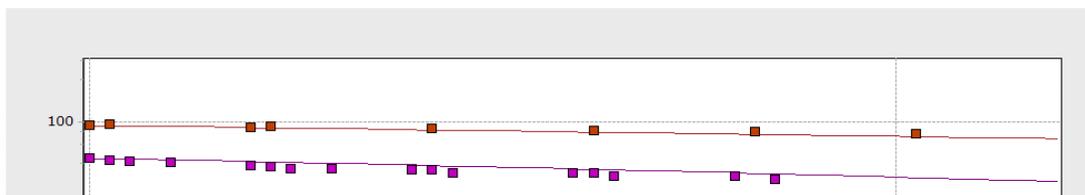


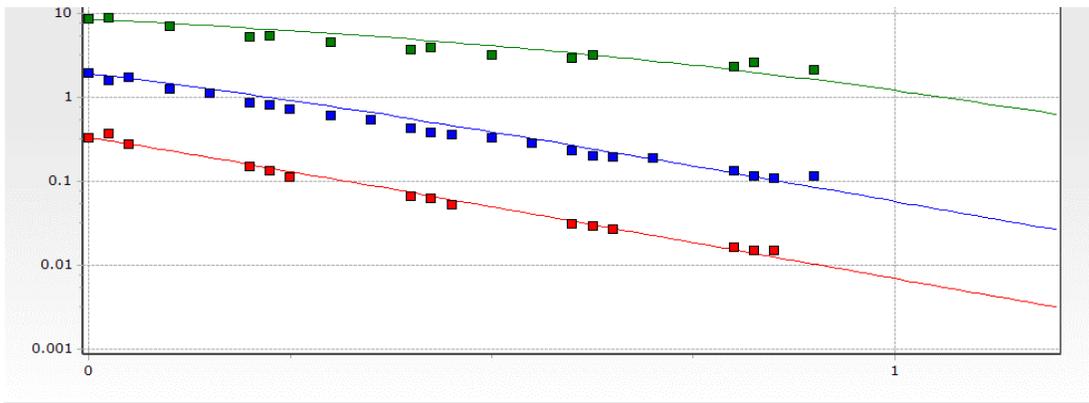
Used acslX Nelder-Mead (Heteroscedasticity set = 2)

Optimized Vmax, Km using optimized KG from male mouse liver

0.12

1.17





Used acslX Nelder-Mead (Heteroscedasticity set = 2)

Optimized Vmax, Km using optimized KG from male mouse liver

0.014

0.69

